## CLAIMS

1. A signal processing apparatus operated by a remote controller comprising:

a designation unit arranged to designate
5 reproduction procedure of an image signal recorded on
a recording medium;

a management data processing unit arranged to allocate to an operating key of said remote controller, a reproduction function that corresponds to said designated reproduction procedure, and generate reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information indicating said designated reproduction procedure; and

a recording unit arranged to record on said recording medium the reproduction procedure management information.

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2. A signal processing apparatus according to claim 1, wherein said management data processing unit selects one of a plurality of layout informations representing predetermined display layouts, and generates said reproduction procedure information using the selected layout information.

3. A signal processing apparatus according to claim 2, wherein said a plurality of layout informations further include template information representing types of operating keys to be employed and functions of said operating keys; and wherein said management data processing unit further generates said operating key information based on the template information included in said selected layout data.

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- 4. A signal processing apparatus according to claim 2, wherein said management data processing unit selects said layout data based on the number of pictures of said image signal to be displayed on a 15 same picture that is selected by said designation unit from among the image signals of the plurality of pictures.
- 5. A signal processing apparatus according to
  20 claim 1, wherein said management data processing unit
  further generates registered image management data
  for identifying image data designated through said
  reproduction procedure, and wherein said recording
  unit writes onto said recording medium said
  25 registered image management data.
  - 6. A signal processing apparatus according to

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claim 1, further comprising:

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a reproduction unit arranged to reproduce said image signal and said reproduction procedure management information stored on said recording medium; and

a control unit arranged to control the reproduction operation of said reproduction unit based on said reproduction procedure management information that is reproduced by said reproduction unit.

7. A signal processing apparatus according to claim 6, further comprising:

a reception unit arranged to receive a television broadcast; and

an output unit arranged to output, to a display device, an image signal associated with said television broadcast received by said reception unit and an image signal reproduced by said reproduction unit.

8. A signal processing apparatus according to claim 7, wherein said reproduction unit includes a memory unit having a plurality of memory planes, and wherein, based on said reproduction procedure designated in accordance with said reproduction procedure management information, said control unit

determines the memory plane to which said image signal is to be written.

- 9. A signal processing apparatus according to
  5 claim 8, wherein said reproduction unit further
  includes a mixing circuit which mixes image data
  stored in said plurality of memory planes and outputs
  the mixed image data to said display device, and
  wherein, based on said reproduction procedure, said
  10 control unit changes the ratio at which said mixing
  circuit mixes said image data of said memory planes.
  - 10. A signal processing apparatus according to claim 8, further comprising:
- an output unit arranged to output, to said display device, an image signal reproduced in accordance with said reproduction procedure,

wherein said control unit detects a display resolution and the number of display colors

20 designated by said reproduction procedure, and compares the detected display resolution and number of display colors with the display resolution and the number of display colors of said display device to determine to which memory plane said image signal is to be written.

11. A signal processing apparatus, the

operation of which is controlled by a remote controller, comprising:

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a designation unit for designating reproduction procedure of an image signal stored on a recording medium;

a management data processing unit arranged to allocate to an operating key of said remote controller a reproduction function corresponding to said designated reproduction procedure, and generate reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information, which indicates said designated reproduction procedure; and

a transmission unit arranged to transmit said reproduction procedure management information to an external device.

a management data processing unit arranged to allocate to the operating key of said operating unit a reproduction function corresponding to said

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designated reproduction procedure, and generate reproduction procedure management information, which include operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information which indicates said designated reproduction procedure; and

a recording unit arranged to record to said recording medium said reproduction procedure management information.

13. A signal processing apparatus comprising:

a designation unit arranged to designate in accordance with an instruction from an operating key of an operating unit, reproduction procedure of an image signal stored on a recording medium;

a management data processing unit arranged to allocate to the operating key of said operating unit a reproduction function corresponding to said designated reproduction procedure, and generate reproduction procedure management information, which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information, which indicates said designated reproduction procedure; and

a transmission unit arranged to transmit said

- 37 reproduction procedure management information to an external device. 14. A television broadcast receiver, the 5 operation of which is controlled by a remote controller, comprising: a designation unit arranged to designate reproduction procedure of an image signal stored on a recording medium; 10 a management data processing unit arranged to allocate to the operating key of said remote controller a reproduction function corresponding to said designated reproduction procedure, and generate reproduction procedure management information, which 15 includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information which indicates said designated reproduction procedure; 20 a recording unit arranged to write onto said recording medium said reproduction procedure management information; a reproduction unit arranged to reproduce the image signal and said reproduction procedure 25 management information stored on said recording medium; a reception unit arranged to receive a

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television broadcast signal that includes moving image data and still image data;

a display image generation unit which includes a memory unit that has a moving image memory plane for moving image data and a still image memory plane for still image data, arranged to generate an image signal for display using said memory unit and output said image signal to a display device;

a mode switching unit arranged to switch

between a first mode for displaying, on said display
device, images associated with a television broadcast
received by said reception unit, and a second mode
for displaying, on said display device, an image
associated with the image signal that is reproduced

from said recording medium by said reproduction unit
in accordance with said reproduction procedure
management information; and

a writing control unit arranged to write, in said first mode, said moving image data included in said television broadcast signal onto said moving image memory plane and also write said still image data onto said still image memory plane, and write, in said second mode, the reproduced image signals of a plurality of pictures to both said moving image memory plane and said still image memory plane.

15. A television broadcast signal receiving

apparatus comprising:

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a reproduction unit arranged to reproduce, from a recording medium, a still image signal and reproduction procedure management information indicating reproduction procedure of said still image signal;

a reception unit arranged to receive a television broadcast signal that includes moving image data and still image data;

a display image generation unit, which includes a memory unit that has a moving image memory plane for moving image data and a still image memory plane for still image data, arranged to generate an image signal for display using said memory unit and output said image signal to a display device;

a mode switching unit arranged to switch between a first mode for displaying, on said display device, an image associated with a television broadcast received by said reception unit, and a second mode for displaying, on said display device, an image associated with the image signal that is reproduced from said recording medium by said reproduction unit in accordance with said reproduction procedure management information; and

a writing control unit arranged to write, in said first mode, said moving image data included in the television broadcast signal onto said moving

image memory plane and also write said still image data onto said still image memory plane, and write, in said second mode, the reproduced still image signal of a plurality of pictures to both said moving image memory plane and said still image memory plane.

16. A signal processing method performed by a remote controller comprising the steps of:

designating reproduction procedure of an image 10 signal recorded on a recording medium;

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allocating to an operating key of said remote controller, a reproduction function that corresponds to said designated reproduction procedure, and generating reproduction procedure management

- information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information indicating said designated reproduction procedure; and
- 20 the recording on said recording medium the reproduction procedure management information.
  - 17. A signal processing method performed by a remote controller comprising the steps of:
- designating reproduction procedure of an image signal stored on a recording medium;

allocating to an operating key of said remote

controller a reproduction function corresponding to said designated reproduction procedure, and generating reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information which indicates said designated reproduction procedure; and

transmitting said reproduction procedure

10 management information to an external device.

18. A signal processing method comprising the steps of:

designating, in accordance with an instruction

15 from an operating key of an operating unit,
reproduction procedure of an image signal recorded on
a recording medium;

allocating to the operating key of said operating unit a reproduction function corresponding to said designated reproduction procedure, and generating reproduction procedure management information which includes operating key information indicating the operating key to which said reproduction function is allocated, and reproduction procedure information which indicates said designated reproduction procedure; and

recording to said recording medium said

reproduction procedure management information.

- 19. A signal processing method comprising the steps of:
- designating, in accordance with an instruction from an operating key of an operating unit, reproduction procedure of an image signal stored on a recording medium;

allocating to the operating key of said

operating unit a reproduction function corresponding
to said designated reproduction procedure, and
generating reproduction procedure management
information which includes operating key information
indicating the operating key to which said

reproduction function is allocated, and reproduction
procedure information, which indicates said
designated reproduction procedure; and

transmitting said reproduction procedure management information to an external device.

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